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An ISO 9001:2008 Certified Company

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

JAS-ANZ BSCIC ISO 9001 REGISTERED

ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	29	29	100%
TOTAL	**29**	**29**	**100%**

Civil-Tech Consultants & Engineers Bangalore

ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬ.ಬ.ಎಂ.ಪ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪ ಬೆಂಗಳೂರು-24

M/s. Civil-Tech Consultants & Engineers

Pooja K.L

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79. Tele fax : 23223227, Cell : 93428 39190

ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:3:6 a)Cement b)M-Sand c)40mm Aggregate	88.68	Cum	3	3	100%
2)Steel 8,10,12 & 16mm	12.36	Tonne	4	4	100%
3)Cube M20	206.22	Cum	19	19	100%
4)Kerb Stone	650.00	No's	1	1	100%
5)Precast Slab 100mm thick	424.80	Sqm	1	1	100%
6)Precast Slab 230mm thick	43.2	Sqm	1	1	100%
TOTAL			**29**	**29**	**100%**

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/JCR/CSR-72j/CEMENT/2022-23

Date: 27.03.2023

TEST REPORT

*** Customer**	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
*** Agency**	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
*** Name of Work**	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
*** Sample ID**	:	Cement
Sample Received on	:	25.03.2023
Period of Testing	:	25.03.2023 to 27.03.2023
Report Issue Date	:	27.03.2023

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015 (2020)
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	195 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1.00 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/JCR/CSR-72j/SAND-Gradation/2022-23

27.03.2023

TEST REPORT SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
*** Agency**	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
*** Name of Work**	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
*** Sample ID**	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received On	:	25.03.2023
Date of Testing	:	27.03.2023
Report Issue Date	:	27.03.2023

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.80	90-100	90-100	90-100	95-100
2.36	82.80	60-95	75-100	85-100	95-100
1.18	61.60	30-70	55-90	75-100	90-100
600 Micron	38.30	15-34	35-59	60-79	80-100
300 Micron	14.10	5-20	8-30	12-40	15-50
150 Micron	1.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/JCR/CSR-72j/AGG/GR/2022-23 27.03.2023

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
*** Agency**	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
*** Name of Work**	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
*** Sample ID**	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received on	:	25.03.2023
Date of Testing	:	27.03.2023
Report Issue Date	:	27.03.2023

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.80	95-100	85-100
20	38.36	30-70	0-20
10	17.46	10-35	0-5
4.75	1.68	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/JCR/Steel/2022-23

31.03.2023

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
* Brand	:	Fe 550
* Samples ID	:	8mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	31.03.2023
Report Issue Date	:	31.03.2023

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	555	599	10.10	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
*** Agency**	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
*** Name of work**	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
*** Brand**	:	Fe_{550}
*** Samples ID**	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	31.03.2023
Report Issue Date	:	31.03.2023

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	558	603	10.15	O.K	O.K

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Job No.: CTCE/BBMP/JCR/Steel/2022-23

31.03.2023

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
* Brand	:	Fe $_{550}$
* Samples ID	:	12 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	31.03.2023
Report Issue Date	:	31.03.2023

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	562	607	10.20	O.K	O.K

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Job No.: CTCE/BBMP/JCR/Steel/2022-23

31.03.2023

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
* Brand	:	Fe $_{550}$
* Samples ID	:	16 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	31.03.2023
Report Issue Date	:	31.03.2023

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	565	610	10.25	O.K	O.K

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/JCR/CSR-72j/Cube/2023-24 09.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of the work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
* Sample ID	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.05.2023
Report Issue Date	:	09.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2023	09.05.2023	8.214	495.6	22.03
2	11.04.2023	09.05.2023	8.236	506.3	22.50
3	11.04.2023	09.05.2023	8.250	482.4	21.44

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

M/s. Civil-Tech Consultants & Engineers

Pooja K.L

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯ. ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-26

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Job No.: CTCE/BBMP/JCR/CSR-72j/Cube/2023-24 09.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of the work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
* Sample ID	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.05.2023
Report Issue Date	:	09.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2023	09.05.2023	8.362	473.6	21.05
2	11.04.2023	09.05.2023	8.330	481.2	21.39
3	11.04.2023	09.05.2023	8.250	496.9	22.08

*Information is furnished by the Customer/Representative.

Note:

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M/s. Civil-Tech Consultants & Engineers

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.05.2023
Report Issue Date	:	09.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2023	09.05.2023	8.374	480.3	21.35
2	11.04.2023	09.05.2023	8.200	513.6	22.83
3	11.04.2023	09.05.2023	8.196	490.7	21.81

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Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.05.2023
Report Issue Date	:	09.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2023	09.05.2023	8.425	477.0	21.20
2	11.04.2023	09.05.2023	8.385	482.1	21.43
3	11.04.2023	09.05.2023	8.285	498.3	22.15

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Compressive Strength as on	:	28^{th} day
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Report Issue Date	:	09.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2023	09.05.2023	8.100	489.7	21.77
2	11.04.2023	09.05.2023	8.337	497.2	22.10
3	11.04.2023	09.05.2023	8.245	504.1	22.41

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Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2023	09.05.2023	8.149	487.0	21.64
2	11.04.2023	09.05.2023	8.348	492.1	21.87
3	11.04.2023	09.05.2023	8.226	508.3	22.59

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1	17.04.2023	15.05.2023	8.332	490.6	21.81
2	17.04.2023	15.05.2023	8.320	496.9	22.08
3	17.04.2023	15.05.2023	8.152	502.4	22.33

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1	17.04.2023	15.05.2023	8.196	501.2	22.28
2	17.04.2023	15.05.2023	8.350	510.4	22.69
3	17.04.2023	15.05.2023	8.274	487.0	21.64

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1	17.04.2023	15.05.2023	8.100	501.2	22.28
2	17.04.2023	15.05.2023	8.230	481.4	21.40
3	17.04.2023	15.05.2023	8.340	477.0	21.20

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of the work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.05.2023
Report Issue Date	:	15.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.04.2023	15.05.2023	8.300	486.3	21.61
2	17.04.2023	15.05.2023	8.290	495.2	22.01
3	17.04.2023	15.05.2023	8.210	506.7	22.52

*Information is furnished by the Customer/Representative.

Note:

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Job No.: CTCE/BBMP/JCR/CSR-72j/Cube/2023-24

17.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.05.2023
Report Issue Date	:	17.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2023	17.05.2023	8.172	483.6	21.49
2	19.04.2023	17.05.2023	8.320	477.0	21.20
3	19.04.2023	17.05.2023	8.240	499.8	22.21

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.05.2023
Report Issue Date	:	17.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2023	17.05.2023	8.135	493.3	21.92
2	19.04.2023	17.05.2023	8.307	489.1	21.74
3	19.04.2023	17.05.2023	8.425	507.4	22.55

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Job No.: CTCE/BBMP/JCR/CSR-72j/Cube/2023-24 17.05.2023

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Sample Received on	:	17.05.2023
Report Issue Date	:	17.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2023	17.05.2023	8.111	482.1	21.43
2	19.04.2023	17.05.2023	8.222	487.0	21.64
3	19.04.2023	17.05.2023	8.396	497.3	22.10

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.05.2023
Report Issue Date	:	17.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2023	17.05.2023	8.137	499.7	22.21
2	19.04.2023	17.05.2023	8.429	480.3	21.35
3	19.04.2023	17.05.2023	8.255	478.1	21.25

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Job No.: CTCE/BBMP/JCR/CSR-72j/Cube/2023-24 12.05.2023

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* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
* Sample ID	:	RCC Culvert Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.05.2023
Report Issue Date	:	12.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.04.2023	12.05.2023	8.142	498.3	22.15
2	14.04.2023	12.05.2023	8.250	475.3	21.12
3	14.04.2023	12.05.2023	8.362	503.4	22.37

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1	14.04.2023	12.05.2023	8.374	502.6	22.34
2	14.04.2023	12.05.2023	8.296	487.0	21.64
3	14.04.2023	12.05.2023	8.217	473.2	21.03

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1	20.04.2023	18.05.2023	8.375	506.3	22.50
2	20.04.2023	18.05.2023	8.290	514.2	22.85
3	20.04.2023	18.05.2023	8.240	488.7	21.72

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1	20.04.2023	18.05.2023	8.100	476.0	21.15
2	20.04.2023	18.05.2023	8.203	482.1	21.43
3	20.04.2023	18.05.2023	8.370	499.9	22.22

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* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of the work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
* Sample ID	:	Ramp Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.05.2023
Report Issue Date	:	30.05.2023

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	30.05.2023	8.111	480.1	21.34
2	02.05.2023	30.05.2023	8.279	493.6	21.94
3	02.05.2023	30.05.2023	8.463	508.7	22.61

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/JCR/CSR-72j/Kerb Stone/2023-24 16.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample	:	Kerb Stone
*Grade of Concrete	:	M_{20}
Sample Received on	:	15.05.2023
Date of Testing	:	16.05.2023
Report Issue Date	:	16.05.2023

SL. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	67.00	112.00	0.823	2084.21	1.67	0.964	54.96	15.59	16.52	17.14	21.43
2	67.00	114.00	0.869	2162.10	1.70	0.967	55.32	15.69	16.63	17.20	21.50
3	67.00	116.00	0.921	2251.97	1.73	0.970	57.41	16.28	17.26	17.79	22.23

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/JCR/CSR-72j/Precast Slab/2023-24

20.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample	:	Precast Slab (100mm thick)
*Grade of Concrete	:	M_{25}
Sample Received on	:	18.05.2023
Date of Testing	:	20.05.2023
Report Issue Date	:	20.05.2023

SL. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	67.00	111.00	0.836	2136.21	1.66	0.962	68.96	19.56	20.73	21.55	26.93
2	67.00	115.00	0.875	2158.10	1.72	0.969	69.95	19.84	21.03	21.71	27.13
3	67.00	117.00	0.942	2283.63	1.75	0.972	71.42	20.26	21.47	22.09	27.61

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Job No.: CTCE/BBMP/JCR/CSR-72j/Precast Slab/2023-24

20.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub-Division, BBMP, Bangalore.
* Agency	:	**Sri.J.C.Ramachandra,** S/o Late Chikkagulaiah, No.59, 5th D Main, 10th C Cross, Nagapura, Mahalakshmipuram Layout, Bangalore-560086.
* Name of work	:	Improvements to Drains and Construction of Culverts at Saraipalya Government School Surrounding in Ward No.07, Thanisandra, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/166/2022-23 Date:15.03.2023
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample	:	Precast Slab (230mm thick)
*Grade of Concrete	:	M_{25}
Sample Received on	:	18.05.2023
Date of Testing	:	20.05.2023
Report Issue Date	:	20.05.2023

SL. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	67.00	113.00	0.824	2068.28	1.69	0.966	69.32	19.66	20.84	21.59	26.98
2	67.00	116.00	0.842	2058.80	1.73	0.970	70.42	19.97	21.17	21.82	27.27
3	67.00	118.00	0.901	2165.72	1.76	0.974	71.42	20.26	21.47	22.05	27.56

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